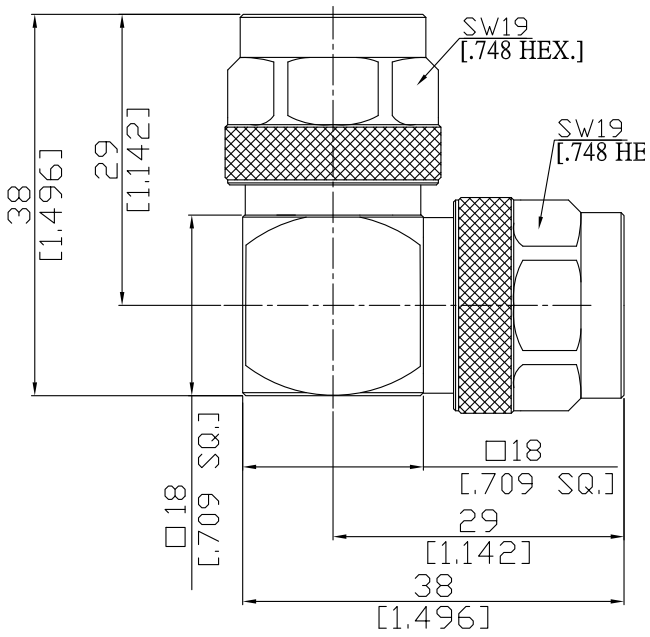
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N plug (male) / N plug (male) L-adaptor DC-11GHz VSWR ≤1.20

ADL-N1N15A / 133-133



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

According to	IEC 61169-16, MIL-STD-348B/304

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center contact resistance	≤ 1 mΩ	
Outer contact resistance	≤ 0.25 mΩ	
Working Voltage (at sea level)	500 V rms	
Power Handling	1000 W @ 1 GHz	700 W @ 2 GHz
RF Leakage	≥ 128 dB up to 1 GHz	

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel

Piece Parts (N)	Material	Plating
Centre contact	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

N plug (male) / N plug (male) L-adaptor DC-11GHz VSWR ≤1.20

ADL-N1N15A / 133-133

Mechanical Data	
Coupling mechanisms	Screw-lock
Mating Cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	0.7 Nm to 1.1 Nm
Environmental Data	
Temperature Range	-55°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant
Packing	
	Single or 100

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified